IGBTs



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	I_C Continuous Collector Current T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
STANDARD		**Low VCE(on) IGBTs for Low Frequency (DC ~ 1kHz) Power Applications**				
Discrete						**TO-220AB**
IRG4BC40S	600	1.6	60	31	160	91455
IRGBC20S	600	3	19	10	60	90790
IRGBC30S	600	3.2	34	18	100	90688
IRGBC40S	600	2.8	50	31	160	90690
Discrete						**TO-247AC**
IRG4PC40S	600	1.6	60	31	160	91465
IRGPC30S	600	3.2	34	18	100	91146
IRGPC40S	600	2.8	50	31	160	90692
IRGPC50S	600	2.6	69	41	200	90694

IGBTs



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
FAST		For Medium Frequency (3-10kHz) Power Applications				
Discrete						**D2Pak**
IRGBC20M-S	600	3.3	13	8	60	91131
IRGBC30M-S	600	3.9	26	16	100	91133
IRGBC40M-S	600	4	40	24	160	91335
Discrete						**TO-220AB**
IRG4BC30F	600	1.59	31	17	100	91450
IRG4BC40F	600	1.5	49	27	160	91454
IRGBC20F	600	3.8	16	9	60	90686
IRGBC20M	600	3.5	13	8	60	91127
IRGBC30F	600	3.1	31	17	100	90689
IRGBC30M	600	3.9	26	16	100	91072
IRGBC40F	600	3	49	27	160	90691
IRGBC40M	600	4	40	24	160	91074
IRGBF20F	900	5.3	9	5.3	60	90776
IRGBF30F	900	4.7	20	11	100	90773
Discrete						**TO-247AC**
IRG4PC30F	600	1.59	31	17	100	91459
IRG4PC40F	600	1.5	49	27	160	91463
IRG4PC50F	600	1.45	70	39	200	91468
IRGPC30F	600	3.1	31	17	100	91023
IRGPC30M	600	3.9	26	16	100	91076



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	I_C Continuous Collector Current T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
FAST		For Medium Frequency (3-10kHz) Power Applications				
IRGPC40F	600	3	49	27	160	90693
IRGPC40M	600	3	40	24	160	91078
IRGPC50F	600	2.7	69	39	200	90695
IRGPC50M	600	3.2	59	35	200	91024
IRGPC60M	600	3.6	69	51	280	91297
IRGPF20F	900	5.3	9	5.3	60	91025
IRGPF30F	900	4.7	20	11	100	91026
IRGPF40F	900	4.3	31	17	160	90770
IRGPF50F	900	3.7	51	28	200	90767
IRGPH20M	1200	5.6	6.9	4.5	60	91137
IRGPH40F	1200	4.3	29	17	160	90764
IRGPH40M	1200	4.4	31	18	160	91029
IRGPH50F	1200	3.9	45	25	200	90761
IRGPH50M	1200	3.9	42	23	200	91030
Co-Pack						**D2Pak**
IRGBC20MD2-S	600	3.5	13	8	60	91141
IRGBC30MD2-S	600	3.9	26	16	100	91143
Co-Pack						**TO-220AB**
IRG4BC30FD	600	1.59	31	17	100	91451
IRGBC20FD2	600	3.8	16	9	60	90788
IRGBC20MD2	600	3.5	13	8	60	91106
IRGBC30FD2	600	3.1	31	17	100	90794

IGBTs

International

Rectifier

Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
FAST		For Medium Frequency (3-10kHz) Power Applications				
IRGBC30MD2	600	3.9	26	16	100	91108
Co-Pack						**TO-247AC**
IRG4PC30FD	600	1.59	31	17	100	91460
IRG4PC40FD	600	1.5	49	27	160	91464
IRG4PC50FD	600	1.45	70	39	200	91469
IRGPC20MD2	600	3.5	13	8	60	91144
IRGPC30FD2	600	3.1	31	17	100	91040
IRGPC30MD2	600	3.9	26	16	100	91082
IRGPC40FD2	600	3	49	27	160	91113
IRGPC40MD2	600	4	40	24	160	91084
IRGPC50FD2	600	2.7	69	39	200	90800
IRGPC50MD2	600	3	59	35	200	91145
IRGPH30MD2	1200	4.5	15	9	100	91115
IRGPH40FD2	1200	4.3	29	17	160	91117
IRGPH40MD2	1200	4.4	31	18	160	91118
IRGPH50FD2	1200	3.9	45	25	200	91120
IRGPH50MD2	1200	3.9	42	23	200	91047
Module						**Double INT-A-Pak**
IRGDDN300M06	600	3	399	159	1563	91174
IRGDDN400M06	600	3	599	239	1984	91175
IRGDDN600M06	600	3.7	799	319	2604	91176
IRGRDN300M06	600	3	399	159	1563	91174



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	I_C Continuous Collector Current T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
FAST		For Medium Frequency (3-10kHz) Power Applications				
IRGRDN400M06	600	3	599	239	1984	91175
IRGRDN600M06	600	3.7	799	319	2604	91176
IRGTDN200M06	600	3	299	119	1000	91178
IRGTDN300M06	600	3	399	159	1316	91179
Module						**IMS-1**
CPU165MF	600	2.5	42	23	83	50028
CPU165MM	600	3	42	23	83	50030
Module						**IMS-2**
CPV362MF	600	2.8	8.8	4.8	24	50026
CPV362MM	600	4.3	7.9	4.6	24	50031
CPV363MM	600	3.4	13	7	37	50033
CPV364MF	600	2.6	27	15	63	50022
CPV364MM	600	2.7	22	12	62.5	50035
Module						**INT-A-Pak**
IRGKI165F06	600	3.3	164	84	379	90967
IRGKI200F06	600	3.3	199	109	500	90968
IRGKIN050M12	1200	3.7	99	45	455	91147
IRGKIN075M12	1200	3.7	149	64	600	91161
IRGKIN100M06	600	3	149	59	500	91149
IRGKIN100M12	1200	3.7	174	74	665	91140
IRGKIN150M06	600	3	199	79	658	91150

IGBTs



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
FAST		For Medium Frequency (3-10kHz) Power Applications				
IRGNI165F06	600	3.3	164	84	379	90975
IRGNI200F06	600	3.3	199	109	500	90976
IRGNIN050M12	1200	3.7	99	45	455	91163
IRGNIN075M12	1200	3.7	149	64	600	91164
IRGNIN100M06	600	3	149	59	500	91153
IRGNIN100M12	1200	3.7	174	74	665	91165
IRGNIN150M06	600	3	199	79	658	91154
IRGTI165F06	600	3.3	164	84	379	90959
IRGTI200F06	600	3.3	199	109	500	90968
IRGTIN050M12	1200	3.7	99	45	455	91167
IRGTIN075M12	1200	3.7	139	59	600	91168
IRGTIN100M06	600	3	149	59	500	91157
IRGTIN100M12	1200	3.7	174	74	665	91169
IRGTIN150M06	600	3	199	79	658	91158



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
ULTRA-FAST		For Higher Frequency (10 - 100 kHz) Power Applications				
Discrete						**D²Pak**
IRGBC20K-S	600	4.5	10	6	60	91130
IRGBC30K-S	600	4.3	23	14	100	91132
IRGBC40K-S	600	4.2	42	25	160	91134
Discrete						**TO-220AB**
IRG4BC20U	600	1.85	13	6.5	60	91448
IRG4BC30U	600	2.05	23	12	100	91452
IRG4BC40U	600	1.72	40	20	160	91456
IRGB420U	500	4	14	7.5	60	90784
IRGB430U	500	4	25	15	100	90783
IRGB440U	500	4	40	22	160	90782
IRGBC20K	600	4.5	10	6	60	91128
IRGBC20U	600	4	13	6.5	60	90681
IRGBC30K	600	4.8	23	14	100	91071
IRGBC30U	600	4	23	12	100	90682
IRGBC40K	600	4.2	42	25	160	91073
IRGBC40U	600	4	40	20	160	90683
Discrete						**TO-247AC**
IRG4PC20U	600	2.4	13	6.5	60	91448
IRG4PC30U	600	2.05	23	12	100	91461
IRG4PC40U	600	1.72	40	20	160	91466



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C = 25°C (A)	T_C = 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
ULTRA-FAST		For Higher Frequency (10 - 100 kHz) Power Applications				
IRG4PC50U	600	1.65	55	27	200	91470
IRGP430U	500	4	25	15	100	90780
IRGP440U	500	4	40	22	160	90779
IRGP450U	500	4.2	59	33	200	91033
IRGPC30K	600	4.8	23	14	100	91075
IRGPC30U	600	4	23	12	100	91032
IRGPC40K	600	4.2	42	25	160	91077
IRGPC40U	600	4	40	20	160	90684
IRGPC50K	600	3.7	52	30	200	91034
IRGPC50U	600	4	55	27	200	90685
IRGPC60K	600	4.1	69	41	280	91296
IRGPH40K	1200	4.5	18	10	160	91248
IRGPH50K	1200	4.5	36	20	200	91126
Co-Pack						**D²Pak**
IRGBC20KD2-S	600	4.5	10	6	60	91125
IRGBC30KD2-S	600	4.8	23	14	100	91142
Co-Pack						**TO-220AB**
IRG4BC20UD	600	1.85	13	6.5	60	91449
IRG4BC30UD	600	2.05	23	12	100	91453
IRGB420UD2	500	3.9	14	7.5	60	91066
IRGB430UD2	500	4	25	15	100	91067
IRGBC20KD2	600	4.5	10	6	60	91105

IGBTs



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C= 25°C (A)	T_C= 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
ULTRA-FAST		For Higher Frequency (10-30kHz) Power Applications				
IRGBC20UD2	600	4	13	6.5	60	90687
IRGBC30KD2	600	4.8	23	14	100	91107
IRGBC30UD2	600	4	23	12	100	90796
Co-Pack						**TO-247AC**
IRG4PC30UD	600	2.05	23	12	100	91462
IRG4PC40UD	600	1.72	40	20	160	91467
IRG4PC50UD	600	1.65	55	27	200	91471
IRGP430UD2	500	4	25	15	100	91063
IRGP440UD2	500	4	40	22	160	91064
IRGP450UD2	500	4.2	59	33	200	91065
IRGPC20KD2	600	4.5	10	6	60	91109
IRGPC30KD2	600	4.8	23	14	100	91081
IRGPC30UD2	600	4	23	12	100	91112
IRGPC40KD2	600	4.2	42	25	160	91114
IRGPC40UD2	600	4	40	20	160	90808
IRGPC50KD2	600	3.7	52	30	200	91123
IRGPC50UD2	600	4	55	27	200	90802
IRGPH40KD2	1200	5.5	18	10	160	91250
IRGPH50KD2	1200	4.5	36	20	200	91121
Module						**Double INT-A-Pak**
IRGDDN300K06	600	3.7	339	139	1563	91195
IRGDDN400K06	600	3.7	519	199	1984	91196



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C= 25°C (A)	T_C= 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
ULTRA-FAST		For Higher Frequency (10-30kHz) Power Applications				
IRGDDN600K06	600	3.7	679	279	2604	91197
IRGRDN300K06	600	3.7	339	139	1563	91201
IRGRDN400K06	600	3.7	519	199	1984	91202
IRGRDN600K06	600	3.7	679	279	2604	91197
IRGTDN150K06	600	3.7	169	69	781	91200
IRGTDN200K06	600	3.7	259	99	1000	91198
IRGTDN300K06	600	3.7	339	139	1316	91199
Module						**IMS-1**
CPU165MK	600	3.7	33	17	83	50036
CPU165MU	600	3.3	33	17	83	50029
Module						**IMS-2**
CPV362M4U	600	2.2	7.2	3.9	23	50044
CPV362MK	600	4.5	5.7	3	24	50032
CPV363M4U	600	2.2	13	6.8	36	50039
CPV363MK	600	4	11	6	37	50034
CPV364MK	600	4.1	24	13	63	50037
CPV364MU	600	3.6	20	10	63	50025
Module						**INT-A-Pak**
IRGKI115U06	600	3.8	129	69	379	90963
IRGKI140U06	600	3.7	169	94	500	90964
IRGKIN100K06	600	3.7	129	50	500	91186



Part Number	V_{CES} Collector-to-Emitter Voltage (V)	Max $V_{CE(on)}$ Collector-to-Emitter Voltage (V)	I_C Continuous Collector Current T_C= 25°C (A)	T_C= 100°C (A)	P_D Max. Power Dissipation (W)	Fax-on-Demand
ULTRA-FAST		For Higher Frequency (10-30kHz) Power Applications				
IRGKIN150K06	600	3.7	169	69	658	91186
IRGNI115U06	600	3.8	129	69	379	90971
IRGNI140U06	600	3.7	169	94	500	90972
IRGNIN100K06	600	3.7	129	50	500	91189
IRGNIN150K06	600	3.7	169	69	658	91190
IRGTI115U06	600	3.8	129	69	379	90955
IRGTI140U06	600	3.7	169	94	500	90956
IRGTIN100K06	600	3.7	129	50	500	91193
IRGTIN150K06	600	3.7	169	69	658	91194